CLAIM AMENDMENTS

Claim 1 (Currently amended) An apparatus for detecting brain electrical potentials on a patient, comprising:

a breathing mask;

a stiff tubular nonround member extending upwardly from said breathing mask and for supplying gas to said breathing mask;

an electrode device which can be applied in the forehead region of the patient on said tubular member, the electrode device being arranged on a forehead support element of an elastomeric material which co-operates with the breathing mask in such a way that an application position of the electrode device is established in conjunction with the application position of the breathing mask, said forehead support element being transverse to said tubular member and having free ends on opposite sides of a central portion, said electrode device including at least one electrode element on each of said ends adapted to bear on the forehead region of the patient when said breathing mask is on the face of the patient and another electrode element on said central ~~region~~ portion bearing on the forehead region, said breathing mask having a seal engaging the face of the patient around a nose and mouth region, a cavity surrounded by said seal and a drawn-in region receiving the nose of the patient and attached to the seal, the electrode elements being coupled to a signal processing device for processing brain signals.

Claims 2 and 3, canceled

Claim 4. (Previously presented) An apparatus as set forth in claim 1 wherein the forehead support element is formed in one piece with a mask base member of the breathing mask device.

Claims 5.- 7. Canceled

Claim 8. (Previously presented) An apparatus as set forth in claim 1 wherein said electrode elements are mounted on an application surface to yield in a direction substantially perpendicular to said application surface.

Claim 9 Canceled

Claim 10. (Previously presented) An apparatus as set forth in claim 1 wherein the signal processing device is integrated into the forehead support element.

Claim 11. (Currently amended) An apparatus as set forth in claim [[9]] 1_ wherein the signal processing device is provided with a data transmission device for the cord-less transmission of the processed signals to a data processing device.

Claim 12. (Currently amended) A breathing mask arrangement for feeding a respiration gas to a patient under an increased pressure, comprising:

a mask member which engages over the nose region of the patient;

a stiff tubular nonround member extending upwardly from said mask member;

a sealing device for sealing off an inner region of the mask with respect to the ambient atmosphere, and

a forehead support element of an elastomeric material for supporting the mask member in the forehead region of the patient, said forehead support element having at least two electrodes said forehead support element being transverse to said tubular member and having free ends on opposite sides of a central portion, said forehead support element having at an electrode on each of said ends and another electrode in said central ~~region~~ portion adapted to press against said forehead region for detecting brain-electrical potentials.

Claim 13. Canceled.

Claim 14. (previously presented) The arrangement defined in claim 12 wherein the mask member is formed from an elastomer material.

Claim 15. (previously presented) The arrangement defined in claim 12 wherein the forehead support element and the mask member are integral.

Claim 16. (Previously presented) The arrangement defined in claim 12 wherein the mask member and the forehead support element are adapted to the individual contour of the face of the patient by virtue of stiffening with a stiffening device which extends into the forehead support element and is formed by said tubular member.

Claims 17, 18, 19 and 20. (Cancelled)